WBLE-SL ► UECM347	173-202401-EZZ ► Quizzes ► 202401UECM34730E1b ► Review of preview	Update this Quiz			
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Started on Monday, 19 February 2024, 06:26 PM  Completed on Monday, 19 February 2024, 06:27 PM					
Time taken 19 secs					
Marks Grade	<b>o</b> 0 out of a maximum of 10 ( <b>0</b> %)				
1 👺 Marks: 1	The random variable X ha the density function with parameter $\beta$ given by $f(x;\beta) = (1/\beta^3)x^2 e^{-(1/3)(x/\beta)^3}, x > 0, \beta > 0.$				
	You are given the following observationof X: 4.3, 1.7, 3.0, 6.6, 4.1.				
	Determine the method of moments estimate of $\beta$ . [Note: $\Gamma(1+1/3) = 0.8930$ .]				
	Answer:				
	Make comment or override grade				
	Incorrect Correct answer: 3.05924				
	Marks for this submission: 0/1.				
2 👺 Marks: 1	You are given the following data for claim sizes:  Claim size Number of claims				
	Under 1100   10   (1100, 2200) 6				
	2200 and up 4				
	The data are fit to an exponential distribution using maximum likelihood. Determine the fitted mean				
	Answer:				
	X X				
	Make comment or override grade				
	Incorrect Correct answer: 1443.3				
	Marks for this submission: 0/1.				
3 🕏	An auto liability coverage has a claims limit of 100. Claim sizes observed are				
Marks: 1	22, 50, 58, 86, 100				
	where the claim at 100 was for exactly 100. In addition, there are 3 claims above the limit. The data are fitted to an exponential distribution. Determine the MLE of θ.				
	Answer:				
	Make comment or override grade  Incorrect				
	Correct answer: 123.2				

Correct answer: 0.001193

Marks for this submission: 0/1.

<b>8</b> 🗹 Marks: 1	Two different estimators, $\psi$ and $\phi$ , are available for estimating the paramentes, $\beta$ , of a given loss distribution. To test their performance, you have 90 simulated trials of each estimator, using $\beta=2$ , with the following results: $\Sigma_{i=1}^{90} \psi_i = 171, \ \Sigma_{i=1}^{90} \psi_i^2 = 377, \ \Sigma_{i=1}^{90} \phi_i = 155, \ \Sigma_{i=1}^{90} \phi_i^2 = 341$ Calculate $MSE_{\psi}(\beta)/MSE_{\phi}(\beta)$ .		
	Answer:		
	Make comment or override grade Incorrect Correct answer: 0.6543 Marks for this submission	: 0/1.	
<b>9</b> 🕏 Marks: 1	Please click the following link to answer the questions:  https://forms.gle/qSTpANMt5X4E2fdj9  Then answer 1 here after submitting the form. [Note: In order to enter the google form, you must make sure that you login to UTAR account. If you see "You need permission", this means that your are not login to UTAR account, switch to UTAR account]		
	Answer:		
	Make comment or override grade Incorrect Correct answer: 1 Marks for this submission	: 0/1.	

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